R E P O R T

O N

PROTON MAGNETOMETER SURVEY

TURNBULL TOWNSHIP

PORCUPINE MINING DISTRICT

NORTHEASTERN ONTARIO

F O R

LOKI RESOURCES INC.

Timmins, Ontario
January, 1985

John C. Grant
Exsics Exploration Ltd.

TABLE OF CONTENTS

INTRODUCTION

This report will deal with the results of a Proton Magnetometer Survey, conducted on three seperate groups of claims, all of which are located in Turnbull Twp., Porcupine Mining District.

The groups are all held by Loki Resources Inc. of Toronto. Exsics Exploration Limited was contracted by Loki to complete the proton Mag survey on all three groups.

Survey coverage was completed on the entire three claim blocks, which consisted of 33 claims, broken down thusly.

Christmas Lake Group	Rutledge South Group		Robb Creek Group	
P758014	P779682	P779687	P779662	P783720
P758013	P779683	P779688	P779663	P783579
P758018	P779684	P779689	P779664	P783580
P758132	P779685	P779690	P783717	P779666
	P779686	P779691	P783718	P783992
			P783719	P783993

All three blocks are located in Turnbull Twp. The grid plans, showing the contoured magnetic results, are presented with this report, in the back pocket.

LOCATION AND ACCESS

Turnbull Township is approximately 14 miles, west of the heart of downtown Timmins. Group A, the Christmas Lake Group is located in the northeast corner of Turnbull Tw., and approximately 1/3 of the grid is covered by the south half of Christmas Lake. Christmas Creek roughly cuts the remainder of the grid in half as it flows south out of the lake.

Access to this group, was with Huisson Aviation, out of Timmins. A 10 minute flight from their base to the junction of Christmas Creek and Christmas Lake will bring you to line 900N, 1500'E of the survey grid. At the time of the survey, Christmas Lake was frozen and acted as a landing site for the helicopter. Refer to figures 1 (a) and 2 (a) for details.

Group B, the Rutledge South Grid, is located in the north, northwest section of Turnbull Twp., approximately 1/2 mile south of Rutledge Mountain. This group consisted of 10 claims.

Access to the group was by truck from Timmins, along highway 101 to the Malette Lumber offices. Malette has constructed an all weather road running west along the township boundaries of Godfrey and Bristol and Turnbull, Carscallen Townships. This provides good access to the south west corner of Turnbull. A secondary road, running north, from this corner, will bring you to within 700 feet east of the #1 post of P779686, and L 0+00, 3300' east of the survey grid. Refer to figure 1 (b) and 2 (b) for details.

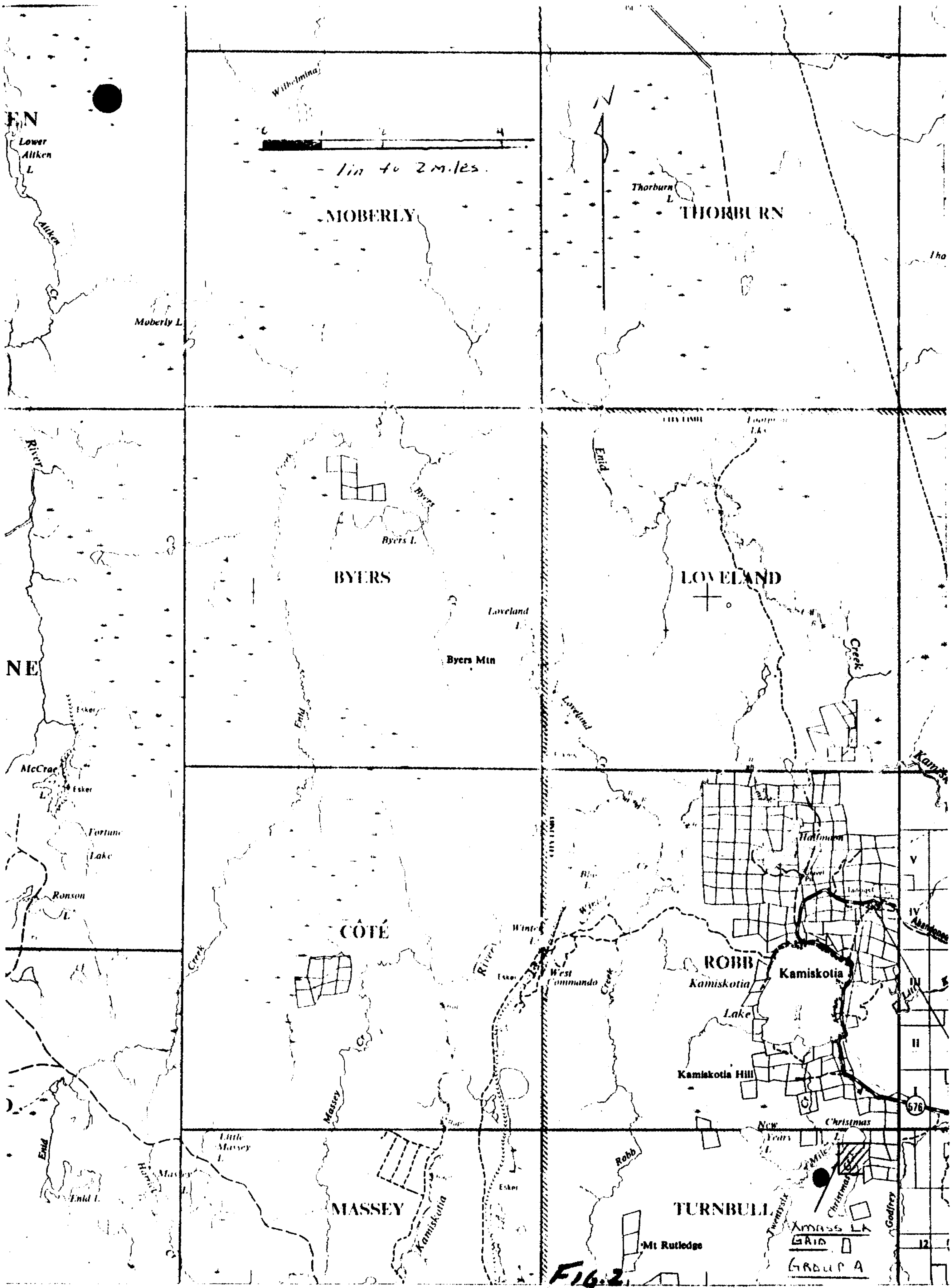
LOCATION AND ACCESS (Cont'd)

Group C, the Robb Creek Grid, is located in the south, southwestern section of Turnbull Twp., approximately 1 1/2 miles north of the Carscallen, Turnbull Twp. line. Robb Creek flows north and west through the north half of the grid.

Access to this grid is the same as Group B. The secondary road, going north from the all weather road, will bring you to L 0+00, 2700'W of the survey grid. Refer to figure 1(c), 2(c) for details.

FIGURE 1

LOCATION MAP



1 in to 2 miles
N
MOBERLY
THORBURN
Wilhelmina
Thorburn L
Lower Aitken L
Aitken
Moberly L
BYERS
LOVELAND
Byers L
Byers
Loveland L
Byers Mtn
Enid
Loveland
Creek
NE
Esker
McCrae L
Fortune Lake
Ronson L
CÔTÉ
ROBB
Kamiskotia
Kamiskotia Lake
Kamiskotia Hill
West Commando
Winter L
River
Creek
Massey
Cr
Halfmoon
New Years L
Christmas L
Little Massey L
Massey L
Enid L
Enid
MASSEY
Kamiskotia
Esker
TURNBULL
Robb
Twentysix Mile
Christmas
Godfrey
Mt Rutledge
576
V
IV
III
II
I
12
Xmass LK GRID
GROUP A

F16.2.

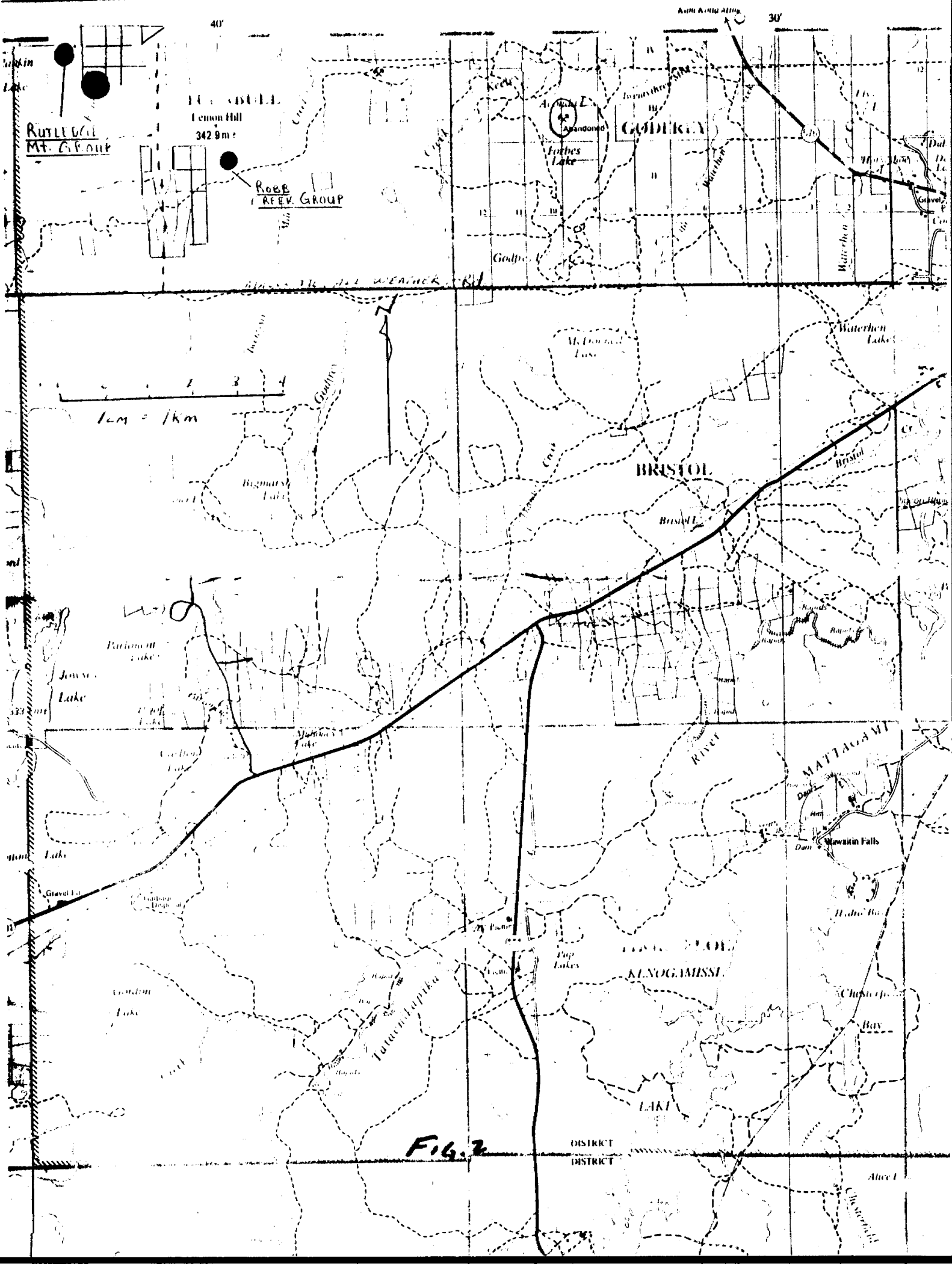

40'
30'
RUTLEDGE
Mt. GROUP
Lemon Hill
342.9m
ROBB
REEV GROUP
Abandoned
GODFREY
Forbes Lake
Waterhen Lakes
1cm = 1km
BRISTOL
Bristol L.
Bigmar L.
Parliament Lakes
Jowsey Lake
Lake
MATTAGAMI
RIVER
Mawaitin Falls
KENOGAMISSI
Tatachikapika
LAKE
DISTRICT
DISTRICT

Fig. 2

LINECUTTING

A total of 33.87 miles of grid and baselines were compassed and flagged over the entire 33 claim block. The mileage was divided between the three blocks as shown below.

Group A: Christmas Lake Grid

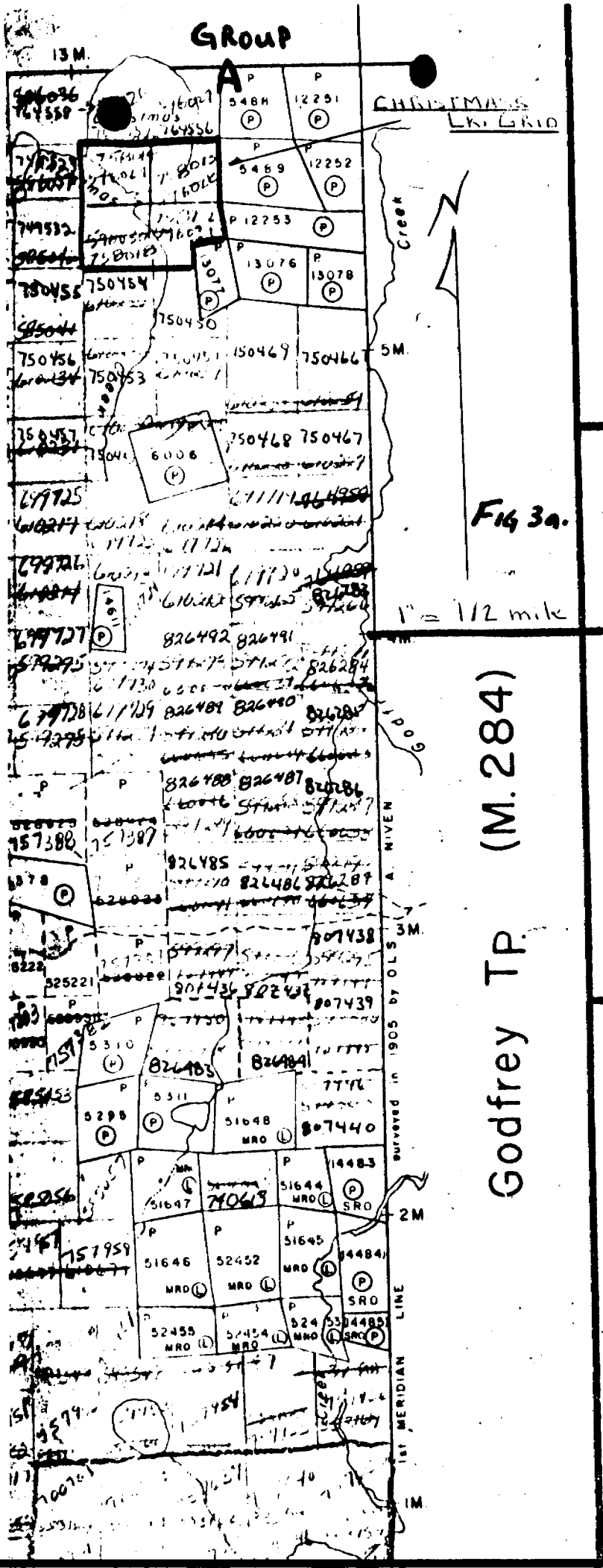
A total of 3.5 miles of grid and baselines were done on this group. The baseline runs at an azimuth of 360° from L 0+00 to L 1700'N. Grid lines were established at 300' intervals along the baseline with 100' stations established on each line from the baseline (west boundary of the group) to 2400' and 2600' east (see fig. 3(a).

Group B: Rutledge South Group

A total of 10.75 miles of compassed and flagged lines were read on this group. The baseline runs at an azimuth of 360° from L 1200'N to L 2100'S. Crosslines were established every 300'from the north to the south boundary of the block and all crosslines were flagged at 100' interval from the east to the west boundaries (see figure 3(b).

Group C: Robb Creek Grid

A total of 19.37 miles of grid and baselines were read over this grid. The baseline runs at an azimuth of 360° from line 5000'S to 1400'N, with a sub-baseline at 3500'W to covers lines 5100'S to 6000'S. Crosslines were turned off at 300' intervals along both baselines and all crosslines were read at 100' intervals from the west to the east boundaries (see figure 3(c).



TURNBULL

RECEIVED
JUL 21 1985
A.M. P.M.

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

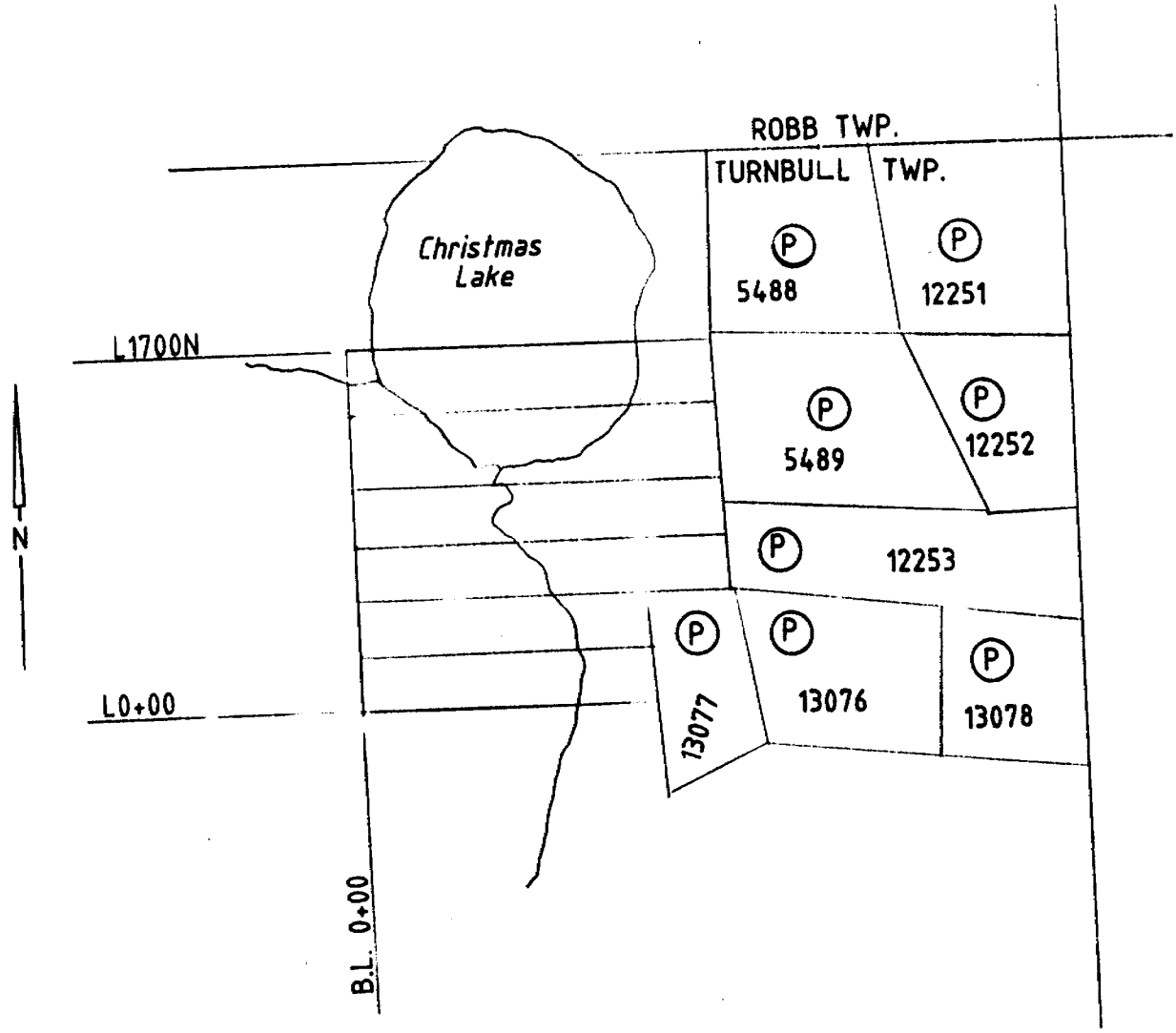
PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.
PATENTED FOR SURFACE RIGHTS ONLY	

NOTES

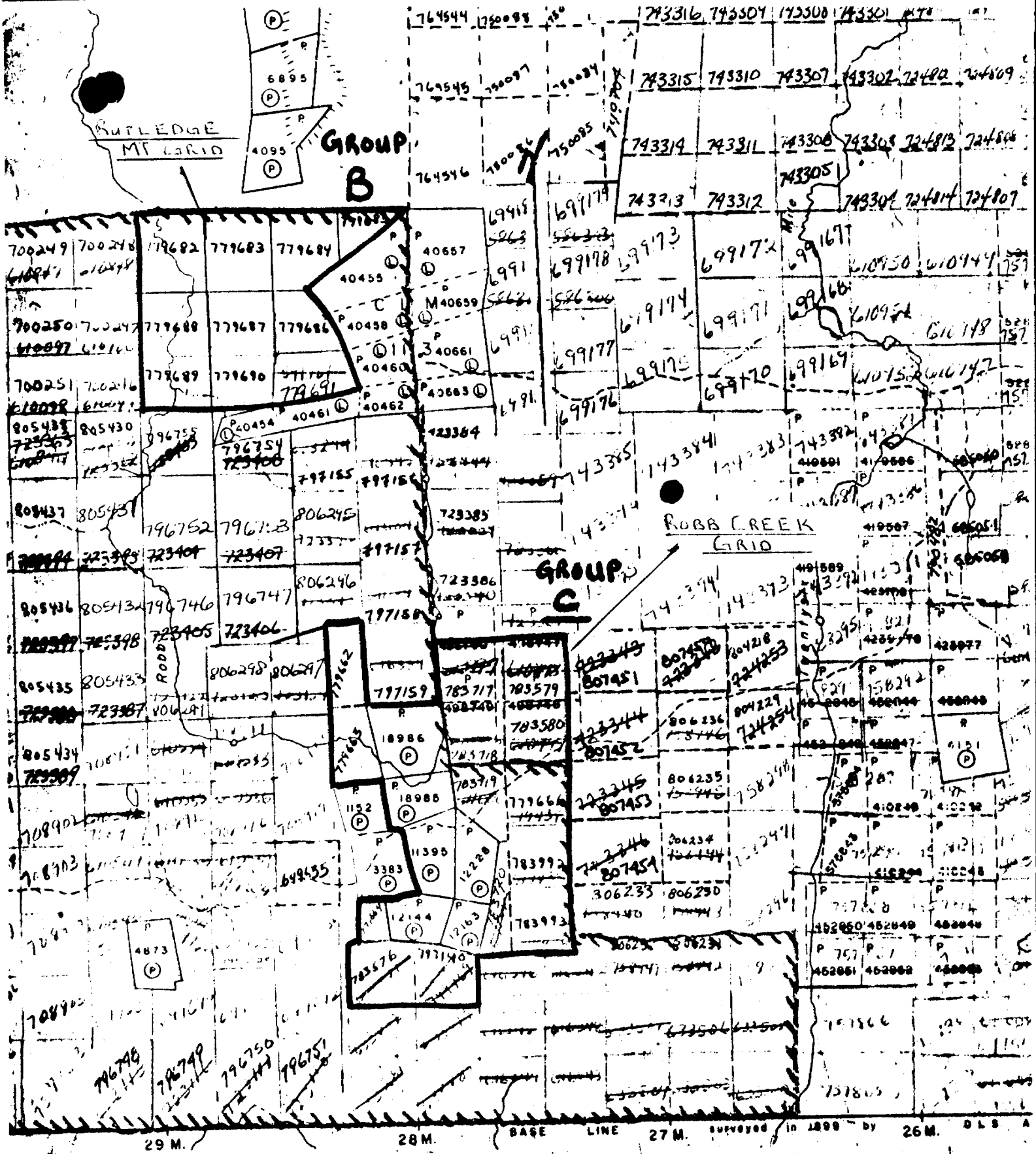
400' Surface Rights Reservation along the shores of all lakes & rivers

This township lies within the Municipality of CITY of TIMMINS.

SITE PREPARATION MNR



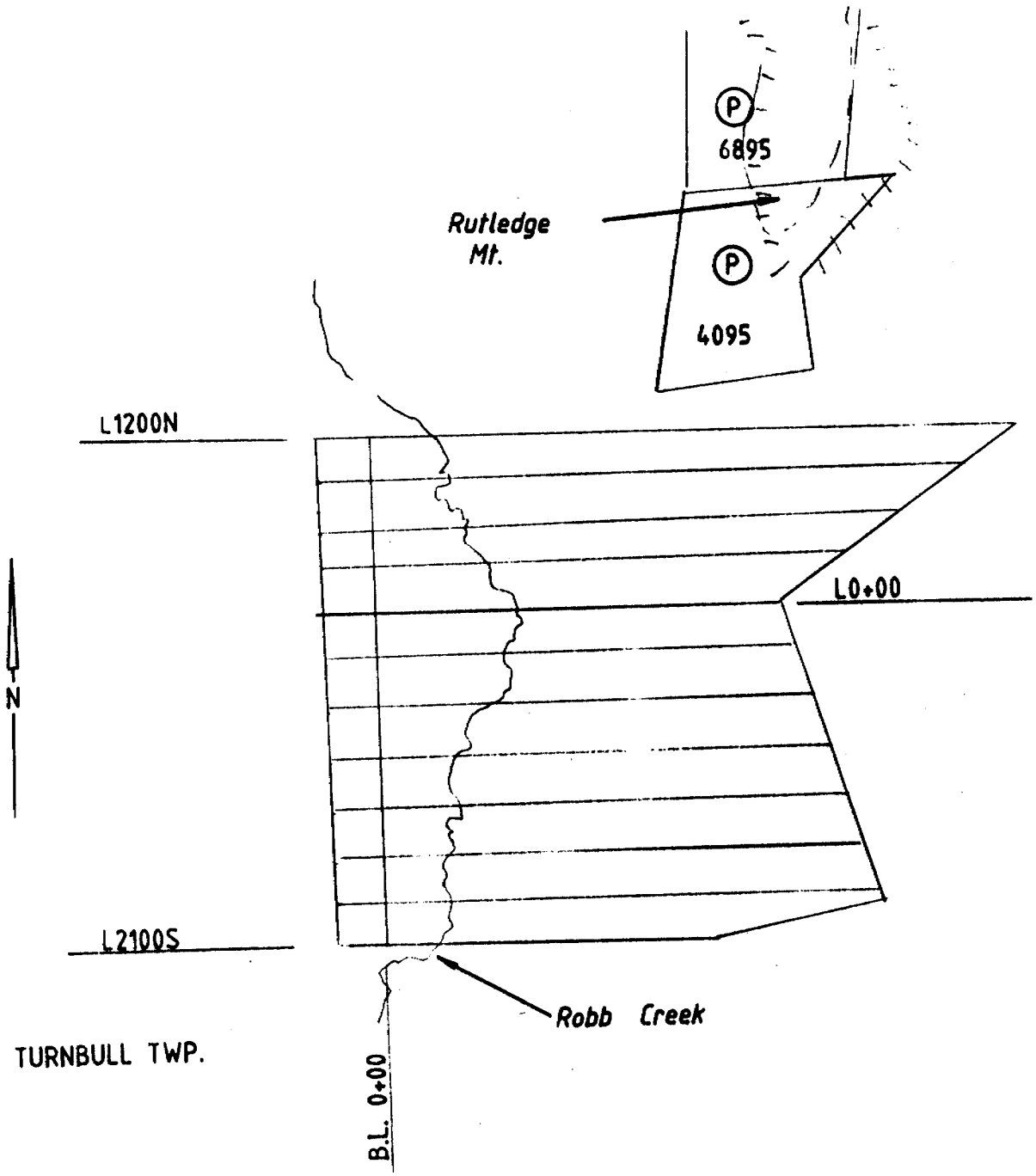
CHRISTMAS LAKE GRID
1 inch=1/4 mile
FIGURE 3
GRID SKETCH



1 inch = 1/2 mile

FIG 36,c.

Carscallen Tp. (M.267)

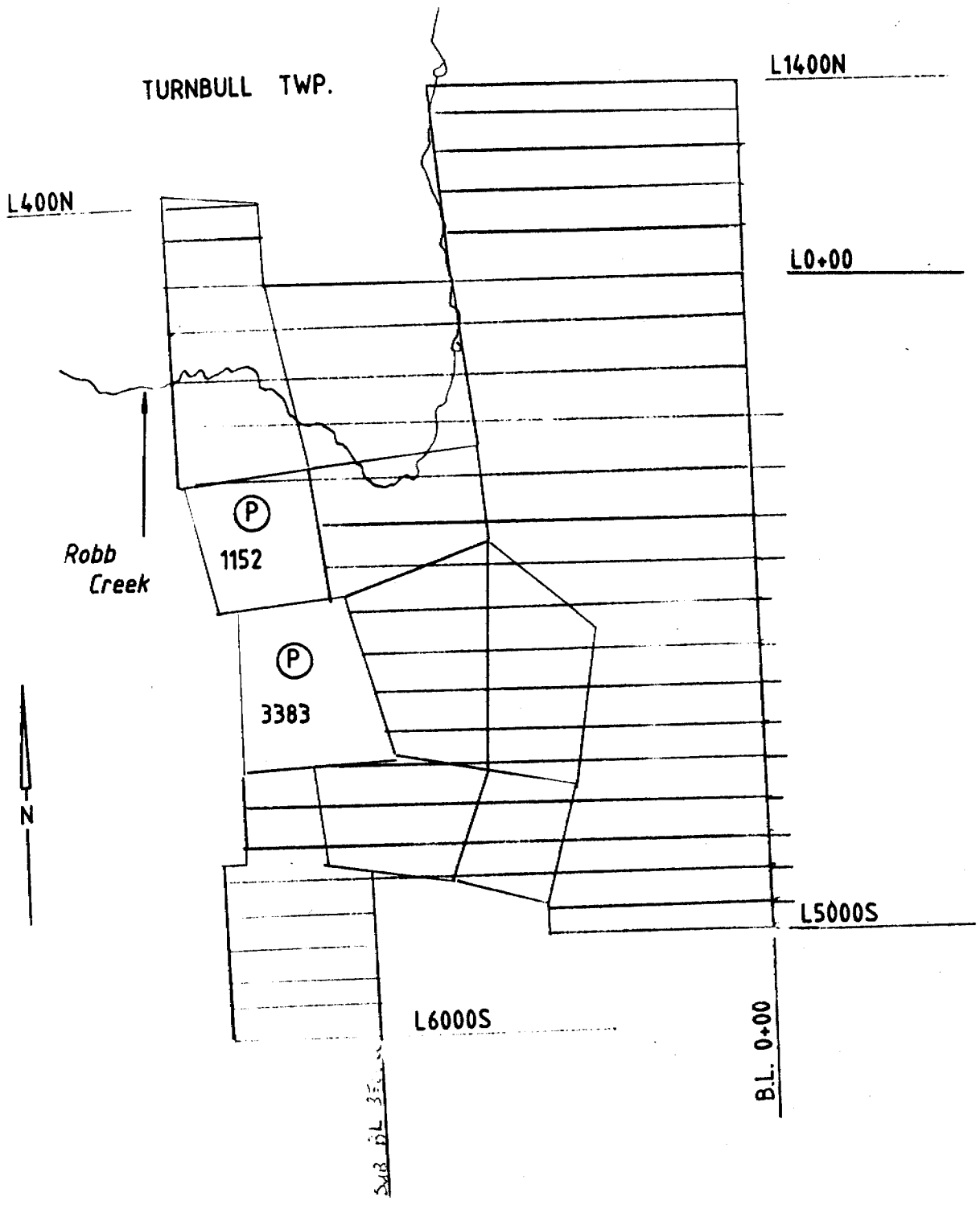


RUTLEDGE SOUTH GRID

1 inch=1/4 mile

FIGURE 3B

GRID SKETCH



ROBB CREEK GRID
1 inch=1/4 mile
FIGURE 3C
GRID SKETCH

GEOPHYSICAL SURVEY

Magnetometer Survey

The magnetometer survey was completed using a Scintrex, MP-2, Proton Magnetometer. Corrections for diurnal variations in the magnetic field were made by establishing base stations at various locations along the baseline. The survey was tied in to these locations throughout the days worked, and corrections to the data was applied.

Technical and operational specifications of the Scintrex, MP-2, Proton Magnetometer are included as Appendix A of this report.

SURVEY RESULTS

The results of the magnetic survey are discussed in detail below.

SURVEY RESULTS

(A) Christmas Lake Group:

As expected, the magnetic trend compares generally to the known geological features of the area. Specifically, the magnetic trend striking, north west from L 0+00/350'E to L 1200'N baseline, and continuing off the survey grid represents a known diabase dike in the same area. Also, the high magnetic feature paralleling the above trend and situated between lines 600'N/1000'E and 1500'N/650'E is also representative of a known diabase.

The magnetic activity in the eastern section of the grid is probably representative of the contact between the metavolcanics and intruded gabbro out crop exposed, and mapped in the area. The magnetic contours conform almost identical to the mapped geology of the survey area.

(B) Rutledge South Group:

The survey area covered by this group has numerous diabase dikes cross-cutting the grid in north-south and north-west directions. The high magnetic activity covering the east half of the survey grid is indicative of these numerous dikes. The trends definetly show at least five areas of dike - like responses all of which coincide with the mapped geology of the same area.

Also, the weaker magnetic trend along the western boundary of the survey grid, coincides with a known diabase dike. The small isolated magnetic lows situated along line 1200'S between 2400'E and 1800'E may be representative of a gabbro intrusive butting up against the dike.

The remainder of the survey grid was non-descriptive.

SURVEY RESULTS

C) Robb Creek Group:

As with the two previous groups, the magnetics of the Robb Group show the mapped diabase dikes on the east boundary of the grid, southwest section and northwest sections.

The magnetic depression between lines 600'N and 500'S may be representative of the felsic intrusions mapped on the preliminary map (P. 966). A weak depression is also evident, striking into the grid at L 1400'N / 2400'W; it may also be representative of the felsic outcrop mapped in the area.

The magnetic feature, striking east-west along lines 2100'S and 2400'S is probably due to the contact between the felsic and ultramafics (gobbros).

This area should be tested in detail due to the presence of a shear zone, an known gold showing, and the presence of quartz veins. An EM survey and a detailed geology survey should be concentrated over this area and if the results are encouraging, the possibility of power stripping and trenching should be considered.

RECOMMENDATIONS & CONCLUSIONS

Generally, the magnetics of the three survey areas correlated to the known geology. The predominant features as expected, were the diabase dikes, and the intrusions of mapped gabbros and felsics.

The main area of interest was on and around the patent claim numbers 18985 and 1395, of the Robb Creek group. Due to the easy accessibility to the area, a detailed EM and geology survey along with stripping and trenching should be carried out on the known gold showing in the area. The presence of the quartz vein and shear zone, would also up grade the area.

CERTIFICATE

I, John C. Grant, hereby certify that:

1) I am a 1975, graduate geophysist. of the three year program in Geological Technology at Cambrian College of Applied Arts and Technology and I have worked subsequently as Exploration Geophysist for Teck Exploration Limited, (5 years), North Bay Office and presently for Exsics Exploration Limited, Timmins Office, as Exploration Manager, Geophysist, since 1980.

2) I am a member of the Certified Engineering Technologist Association.

3) I am an associate member of the Geological Association Of Canada

4) I have been actively engaged in my profession for the past ten(10) years, including all aspects of Exploration studies, surveys and interpretations

5) I have no specific or special interest in the described property and the field work described in the attached report was carried out under my supervision. The interpretations and conclusions contained therein are based on my training and professional experience.

John Charles Grant (C.E.T.)
Exsics Exploration Limited

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Proton Magnetometer Survey

Township or Area Turnbull Township

Claim Holder(s) Loki Resources Limited
Suite 1800, 2180 Young Street, Toronto

Survey Company Exsics Exploration Limited

Author of Report John C. Grant

Address of Author P.O. Box 1880, Timmins, Ontario

Covering Dates of Survey Dec.1/84 to Dec.24/84
(linecutting to office)

Total Miles of Line Cut 33.87 miles

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	
–Magnetometer	20
–Radiometric	
–Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Oct 30/85 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ _____ Qualifications 2.5347

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P 758014	P 779664
758013	783717
758018	783718
758132	783719
779682	783720
779683	783992
779684	783993
779685	783579
779686	783580
779687	
779688	
779689	
779690	
779691	
779662	
779663	
779666	

TOTAL CLAIMS 26

If space insufficient, attach list

0227 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations 2300 Number of Readings 2300

Station interval 100 feet, 50 foot detail Line spacing 300 feet

Profile scale

Contour interval 25,50, 100, 250, 500, 1000 gammas

MAGNETIC

Instrument Scintrex, MP-2 Portable Proton Magnetometer

Accuracy – Scale constant +/- 1 gamma over a 20,000 to 100,000 gamma range

Diurnal correction method Various basestations located on the survey grid

Base Station check-in interval (hours) every three (3) hours

Base Station location and value Rutledge Grid: L2100S/4800E,(59145), L0/3400E(59180) L1200N/4800E(59100). Xmass Lk. Grid: L1200N/1500E(59100). L750N/1500E(59100) Robb Gk. Grid: L300N/300W(59050) L1500S/2600W(59050) L3000S/2100W(59100) L5000S/2200W(5950)

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency (specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

SCINTREX MP-2 Portable Proton Precession Magnetometer

Function

The MP-2 is a portable one gamma proton precession magnetometer for field survey or base station use. The optimized design of sensor and circuitry using the latest COS/MOS components has resulted in a very light weight, low power consumption, rugged and reliable magnetometer.

Light emitting diodes coupled with an ingenious optically polarized reflector combine solid state reliability with easy reading even in bright sunlight.

Coupled with a module into which the MP-2 is easily inserted, the magnetometer can be used as a base station unit for analogue or digital recording. Full details of the MBS-2 Magnetic Base Station are available on another Scintrex specification sheet.

The noise-cancelling dual-coil sensor and electronics have been so designed as to effectively eliminate reading problems due to virtually all magnetic gradients which may be encountered in field survey conditions.

Features

1 gamma sensitivity and accuracy over range of 20,000 to 100,000 gammas.

Operates in very high gradients, to 5000 gammas per meter.

Ultra small size and weight.

Up to 25,000 readings from only 8 D cells.

Battery pack isolated from electronics for corrosion protection.

Battery pack easily extended for winter use.

Light emitting diode digital display, with complete test feature.

Unique no-glare polarized reflector permits easy reading in bright sunlight.

Indicator light warning of excessive gradient, ambient noise or electronic failure.

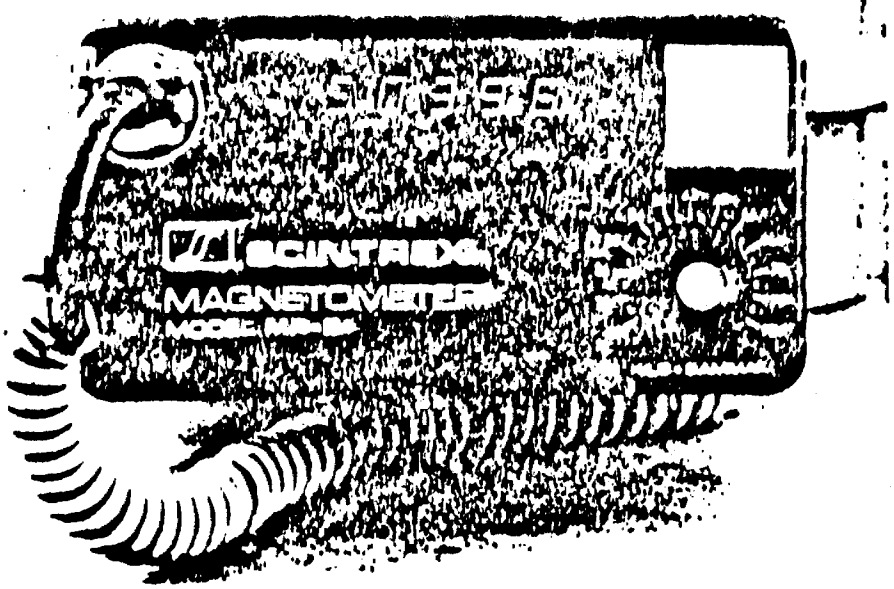
Digital readout of battery voltage.

Rugged all metal housing for rough field use at all temperatures.

Automatic recycling or external trigger features permit ready conversion to base station use.

Short reading time.

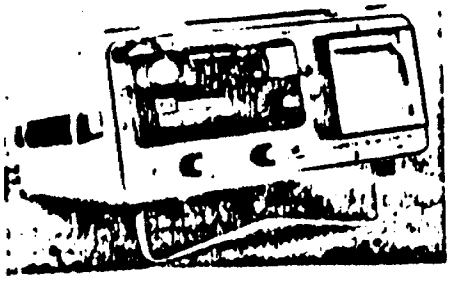
Broad operating temperature range.



MP-2 Console

MP-2 in Operation with Staff Sensor

Technical Description of MP-2 Portable Proton Precession Magnetometer



MBS-2 Magnetic Base Station

MP-2 in Operation with Back Pack Sensor

Resolution	1 Gamma
Total Field Accuracy	±1 Gamma over full operating range
Range	20,000 to 100,000 gammas in 25 overlapping steps
Internal Measuring Program	Single reading – 3.7 seconds. Recycling feature permits automatic repetitive readings at 3.7 second intervals
External Trigger	External trigger input permits use of sampling intervals longer than 3.7 seconds
Readout	5 digit LED (Light Emitting Diode) readout displaying total magnetic field in gammas or normalized battery voltage
Digital Output	Multiplied precession frequency and gate times
Base Station Mode	MP-2 console slips into a base station module which provides external triggering as well as digital and analogue outputs. The complete unit is called the MBS-2 Magnetic Base Station
Gradient Tolerance	Up to 5000 gammas/meter
Power Source	8 alkaline "D" cells provide up to 25,000 readings at 25°C under reasonable signal/noise conditions (less at lower temperatures). Premium carbon-zinc cells provide about 40% of this number
Sensor	Omnidirectional, shielded, noise-cancelling dual coil, optimized for high gradient tolerance
Harness	Complete for operation with staff or back pack sensor
Operating Temperature Range	-35°C to +60°C
Size	Console, with batteries: 80 x 160 x 250mm Sensor: 80 x 150mm Staff: 30 x 1550mm (extended) 30 x 600 mm (collapsed)
Weights	Console, with batteries: 1.8 kg Sensor: 1.3 kg Staff: 0.6 kg
Standard Accessories	Sensor, Staff, Cable, Harness, Carrying Case, Manual
Shipping Weight	Approximately 9.5 kg

Scintrex Limited
222 Snidercroft Road
Concord (Toronto) Ontario
Canada L4K 1B5
Tel: (416) 669-2280

Complete Geophysical Instrumentation and Services

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

#532/84 Th

42A12SE0506 2.7791 TURNBULL

900

Type of Survey(s): PROTON MAGNETOMETER SURVEY.	Township or Area: TURNBULL TWP.
Claim Holder(s): LOKI RESOURCES INC	Prospector's Licence No.: T-1647
Address: 390 BAY ST. SUITE 1710, TORONTO, ONT.	
Survey Company: EXSICS EXPLORATION LIMITED.	Date of Survey (from & to): 08 / 12 / 84 (Day / Mo. / Yr.) — 08 / 12 / 84 (Day / Mo. / Yr.)
Name and Address of Author (of Geo-Technical report): J. C. GRANT BOX 1880, TIMMINS, ONT. P4N-7X1	Total Miles of line Cut: 3.5 Miles.

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions: For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days: Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits: Note: Special provision credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

PORCUPINE MINING DIVISION RECEIVED DEC 12 1984 P.M. 7 8 9 10 11 12 1 2 3 4 5 6

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P.	758018	20
	758782	20
	758014	20
	758013	20

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
DEC 19 1984
MINING LANDS SECTION

RECORDED
DEC 12 1984
Receipt No. 21

Total number of mining claims covered by this report of work: 4

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
80	Dec 12/84	
	Date Approved as Recorded	Mining Recorder
	85.9.18	

Date	Recorded Holder or Agent (Signature)
Dec 12/84	J.C. Grant

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: J. C. GRANT BOX 1880, TIMMINS, ONT. P4N-7X1

Date Certified	Certified by (Signature)
Dec 12/84	J.C. Grant

1362 (81/9)

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

The Mining Act

543/84
2.7791

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): PROTON MAGNETOMETER SURVEY.	Township or Area: TURNBULL TWP.
Claim Holder(s): LOKI RESOURCES INC.	Prospector's Licence No.: T-1647
Address: 390 BAY ST., SUITE 1710, TORONTO, ONT.	
Survey Company: EXSICS EXPLORATION LTD.	Date of Survey (from & to): 06 Day / 12 Mo. / 84 Yr. — 13 Day / 12 Mo. / 84 Yr.
Name and Address of Author (of Geo-Technical report): JOHN C. GRANT BOX 1880, TIMMINS, ONT.	Total Miles of line Cut: 18

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions: For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	20
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days: Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P.	779662	~~20~~
	779663	~~20~~
	779664	~~20~~
	783576	~~20~~
	783720	~~20~~
	783719	~~20~~
	783718	~~20~~
	783717	~~20~~
	783992	~~20~~
	783993	~~20~~
	779666	~~20~~
	783580	~~20~~
	783579	~~20~~

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
JAN 14 1985
MINING LANDS SECTION

PORCUPINE MINING DIVISION
RECEIVED
DEC 14 1984
A.M. 7 8 9 10 11 12 P.M. 1 2 3 4 5 6

RECORDED
DEC 14 1984
Receipt No. [illegible]

Expenditures (excludes power stripping)

Type of Work Performed	
Performed on Claim(s)	

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 13.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
260	Dec 14/84	
	Date Approved as Recorded: 85.V.18	Branch Director

Date: Dec. 13/84 Recorded Holder or Agent (Signature): J. C. Grant

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: JOHN C. GRANT BOX 1880, TIMMINS ONT. P4N-7X1

Date Certified: Dec 13/84 Certified by (Signature): J. C. Grant

1362 (81/9)

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

Attn: Doug
#007/85

Mining Act

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): PROTON MAGNETOMETER	Township or Area: TURNBULL TWP.
Claim Holder(s): LOKI RESOURCES INC	Prospector's Licence No.: T-1647
Address: Suite 1800, 2180 Yonge St., Toronto, Ontario.	
Survey Company: EXSICS EXPLORATION LTD.	Date of Survey (from & to): 18 12 84 / 24 12 84 (Day / Mo. / Yr.)
Total Miles of line Cut: 10.5	
Name and Address of Author (of Geo-Technical report): JOHN C GRANT BOX 1880, TIMMINS, ONTARIO P4N-7X1	

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P.	779682	
	779683	
	779684	
	779685	
	779686	
	779687	
	779688	
	779689	
	779690	
	779691	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
FEB 11 1985
MINING LANDS SECTION

RECORDED
8 JAN 1985
Receipt No.

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

RECEIVED
PORCUPINE MINING DIVISION
JAN 08 1985 P.M.
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 10

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
200	Jan 8/85	
	Date Approved as Recorded	Provincial Director
	85.5.18	

Date	Recorded Holder or Agent (Signature)
Jan 7/85	J Grant

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: JOHN C. GRANT, BOX 1880, TIMMINS, Ont. P4N-7X1

Date Certified	Certified by, Signature
Jan 7/85	J Grant

1382 (81/9)

Mining Lands Section

File No 2.7791

Control Sheet

TYPE OF SURVEY ✓ GEOPHYSICAL

____ GEOLOGICAL

____ GEOCHEMICAL

____ EXPENDITURE

MINING LANDS COMMENTS:

lgd

L D

Doug

Signature of Assessor

18/02/85

Date

TRIM LINE

M.316

Robb Tp. (M.309)

Massey Tp. (M.296)

Godfrey Tp. (M.284)

Carscallen Tp. (M.267)

17M. BASE LINE 16M. surveyed in 1905 15M. by O.L.S. A. NIVEN 14M. 13M.

29M. 28M. BASE LINE 27M. surveyed in 1899 by 26M. O.L.S. A. NIVEN 25M.

5M. 4M. 3M. 2M. 1M.

Mt. Rutledge

Creek

Robb

1st MERIDIAN LINE

surveyed in 1905 by O.L.S. A. NIVEN

THE TOWNSHIP OF

TURNBULL

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C
PATENTED FOR SURFACE RIGHTS ONLY	

NOTES

400' Surface Rights Reservation along the shores of all lakes & rivers

This township lies within the Municipality of CITY of TIMMINS.

SITE PREPARATION MNR

PLAN NO. M-316

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

K. Kalamov

42A12SE0506 2.7791 TURNBULL

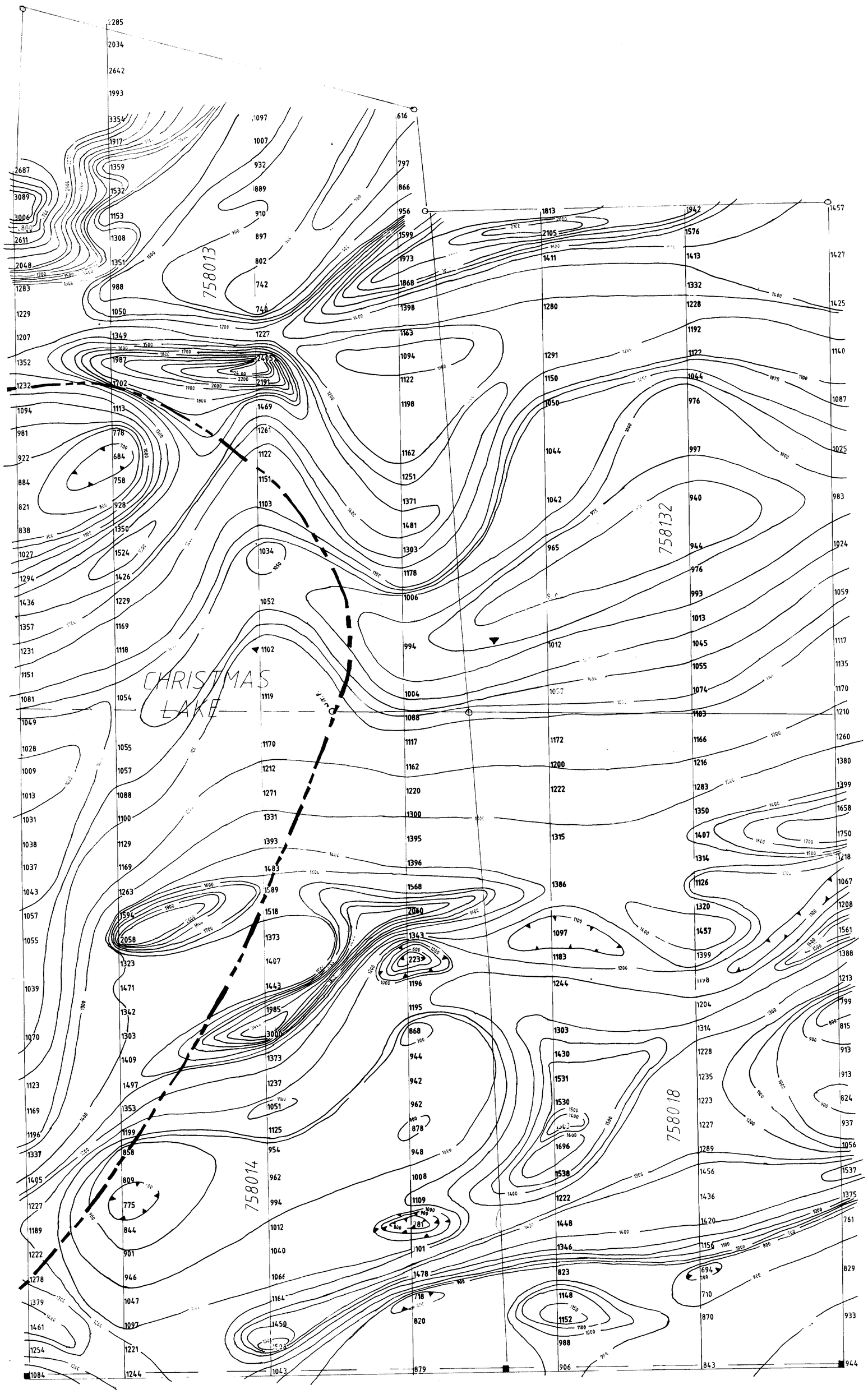
200

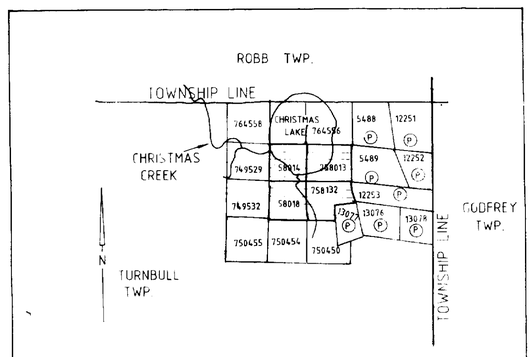
TRIM LINE

N

L1700N L1500N L1200N L900N L600N L300N L0+00

2800E
2700E
2600E
2500E
2400E
2300E
2200E
2100E
2000E
1900E
1800E
1700E
1600E
1500E
1400E
1300E
1200E
1100E
1000E
900E
800E
700E
600E
500E
400E
300E
200E
100E
B.L.





LOCATION MAP
SCALE=1inch=0,5mile

Total Magnetic Field,in gammas 58000

Base Station Location: ▲

Contour Intervals:25,50,100,250

Magnetic Depression:

Instrument: Scintrex MP-2

Survey by:Exsics Exploration Ltd.

KEY

Claim Lines: ——— ———

Claim Post: ■

Claim Number: *758014*

Client: Loki Resourses

Grid: Christmas Lake

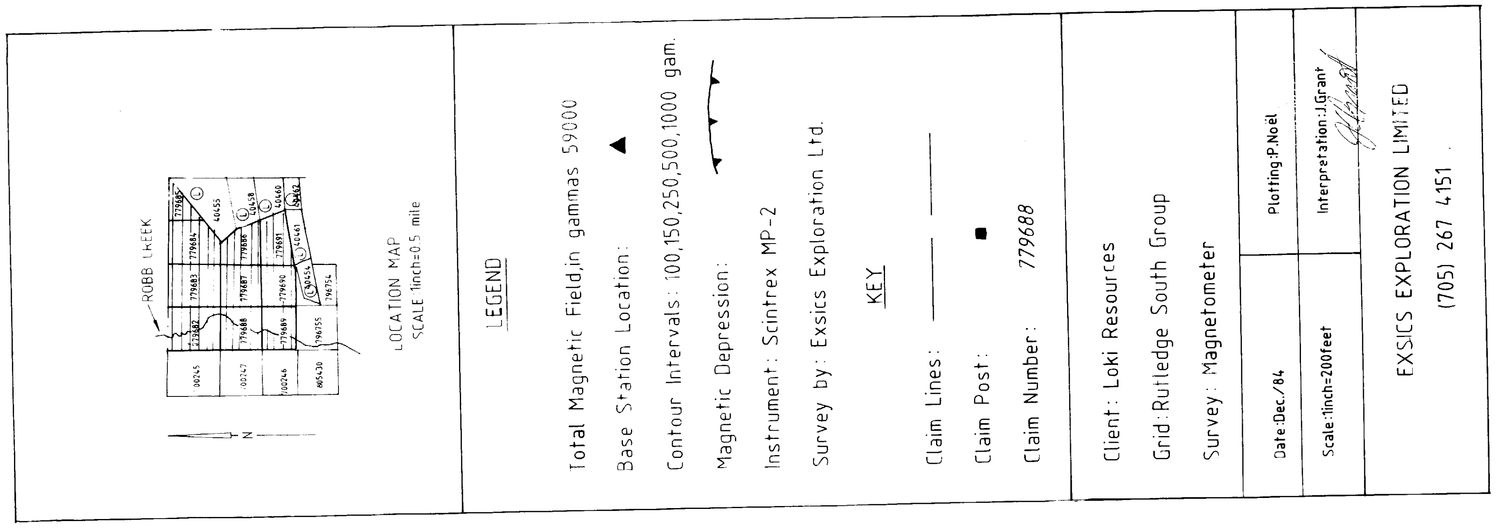
Survey: Magnetometer

Date:Dec./84	Plotting:P.Noel
Scale:1 inch=100feet	Interpretation:J.Grant

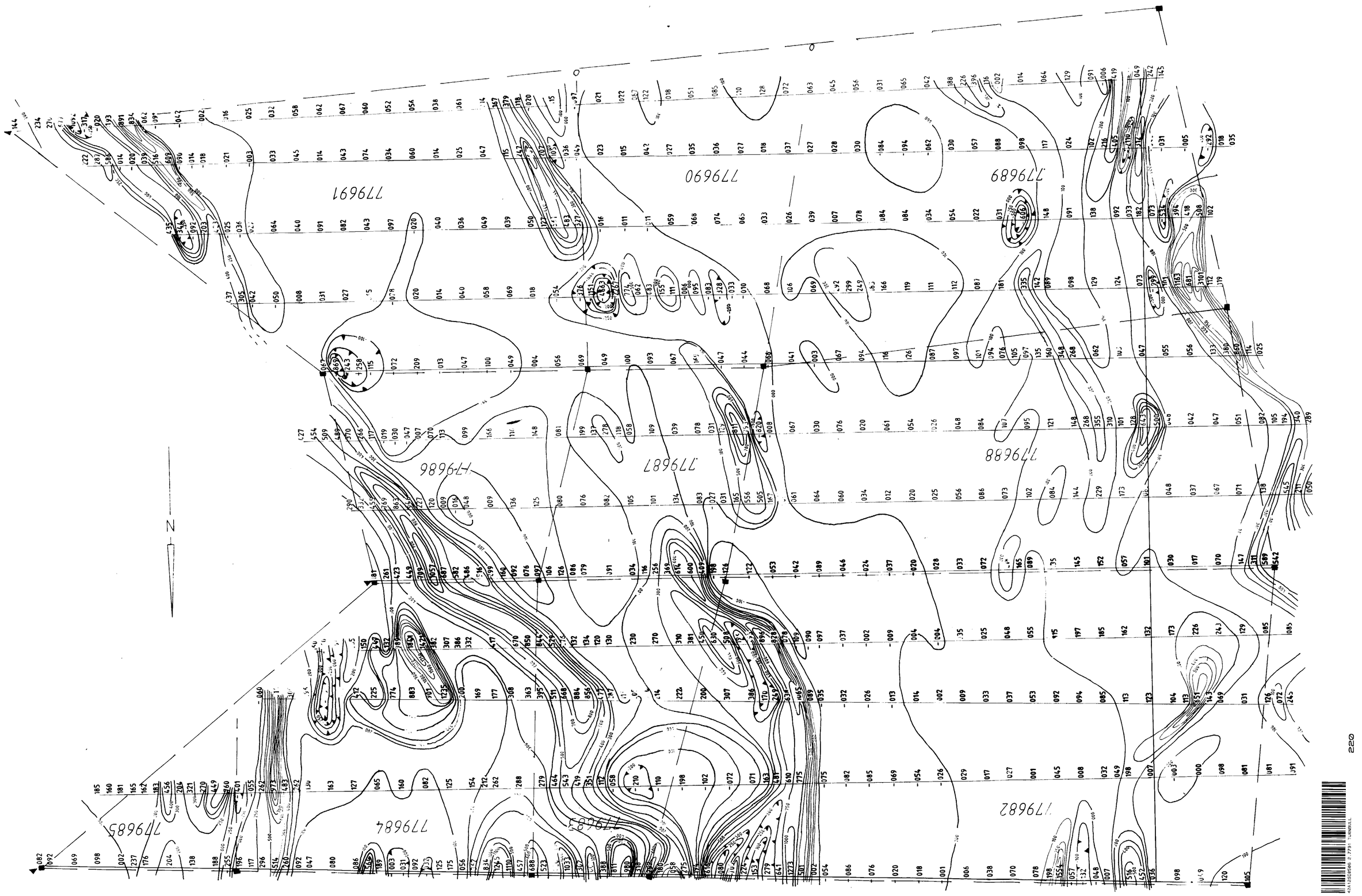
EXSICS EXPLORATION LIMITED

(705) 267 4151

2.7791


ROBB LAKE
LOCATION MAP
SCALE 1inch=0.5 mile
LEGEND
Total Magnetic Field,in gammas 59000
Base Station Location:
Contour Intervals: 100,150,250,500,1000 gam.
Magnetic Depression:
Instrument: Scintrex MP-2
Survey by: Exsics Exploration Ltd.
KEY
Claim Lines:
Claim Post:
Claim Number: 779688
Client: Loki Resources
Grid: Rutledge South Group
Survey: Magnetometer
Date: Dec./84
Plotting: P. Noel
Scale: 1inch=200feet
Interpretation: J. Grant
EXSICS EXPLORATION LIMITED
(705) 267 4151

9.1991


L2100S
L1800S
L1500S
L1200S
L900S
L600S
L300S
L0+00
L300N
L600N
L900N
L1200N
4800E
4600E
4400E
4200E
4000E
3800E
3600E
3400E
3200E
3000E
2800E
2600E
2400E
2200E
2000E
1800E
1600E
1400E
1200E
1000E
800E
600E
400E
200E
0+00
200W
400W
600W
800W
N
779691
779690
779689
779686
779687
779688
779685
779684
779683
779682
220

8COE
6OOE
4OOE
2OOE
BL. 0+00
200W
400W
600W
800W
1000W
1200W
1400W
1600W
1800W
2000W
2200W
2400W
2600W
2800W
3000W
3200W
3400W
3600W
3800W
4000W
4200W
4400W
4600W
4800W

L1400N L1200N L900N L600N L400N L300N L0+00 L300S L600S L900S L1200S L1500S L1800S L2100S L2400S L2700S L3000S L3300S L3600S L3900S L4200S L4500S L4800S L5000S L5100S L5400S L5800S L6000S

N

P 18986
P 18985
P 11395
P 12144
P 12163
P 12228

783579 783580 779666 783992 783993
783718 783719 783720
779662 779663 779664 783576

LEGEND

Total Magnetic Field,in gammas 59000
Magnetic Depression:
Contour Intervals:50,100,250,500,1000
Base Station Location: ▲
Survey by: Exsics Exploration Ltd.
Instrument: Scintrex MP-2

KEY

Claim Line: ——————
Claim Post: ■
Claim Number: 783717

Client: Loki Resources
Grid: Kubb Creek Group
Survey: Magnetometer

Plotting: P Noël — Interpretation: J.Grant
Date: Dec. / 1984 — Scale: 1inch=200feet

EXSICS EXPLORATION LIMITED
(705) 267 4151

2191